**Genetic Disorder Project**

**Mr. Boyd’s Biology Class**

**Directions:** Students will create a report on a genetic disorder. You may choose any of the activities below in order to show what you have learned. Some of these will have to be shared with the class. The disorders that you may choose from are: Cystic Fibrosis, Huntington’s disease, Phenylketonuria (PKU), Tay-Sachs, and Achondroplasia. This project will count as two test grades. It is due on **Friday, April 16th.** You may work with a partner unless you are doing Linguistic, interpersonal, intrapersonal, or naturalist.

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| Linguistic | Write a research paper on your topic. This should be typed, double spaced, 1 inch margins, and 12 pt font. Honors should be a minimum of 4 pages and Standard should be a minimum of 2.5 pages. |
| Math/Logic | Create a game to play to help others learn about all of the disorders above. There should be written instructions, and rules for the game. You must then lead the class in playing the game. (Make sure that everyone in the class can participate). |
| Kinesthetic | Build a fictitious medical device that can detect and cure one of the genetic disorders above. Be sure to include how it detects the disorder (symptoms, what type of disorder, and who it affects). *Must present to class.* |
| Visual/Spatial | Create a poster or PowerPoint to present to the class to tell them about your genetic disorder. Posters must be large enough to be seen by the rest of the class, and contain important information about the disorder. |
| Musical | Write a song that informs us about one of the disorders or depicts the life of someone with this disorder. You can put music to it if you would like. Must have three verses and a chorus. *Must perform for the rest of the class.* |
| Interpersonal | Write a monologue to present to the class in which your character has one of these disorders. Describe not only the symptoms and how the disorder works, but include how this disorder affects your character’s life. Monologue must be at least 3 minutes long. *Must perform for class.* |
| Intrapersonal | Write a book of poems (Three poems minimum). Include: *1)* how you would compare yourself to someone that has one of these disorders, *2)* appeal to the public on treatment for the disorder, and *3)* how your life would be affected if someone in your family had the disorder. |
| Naturalist | Compare your genetic disorder to something that goes on in nature. Be sure to include symptoms, and type of genetic disorder. Must be a logical tie in to something you see in nature. Use this to create a PowerPoint presentation for the rest of the class to make a point for saving the environment. |

**Grading: 50 points = information on disorder; 20 points = Creativity; the last 30 points will be determined by the quality of the particular assignment you perform (*did you follow the directions of the assignment*).**